

SECTION 151040
SURGE RELIEF VALVES (S-106)

1. DESCRIPTION

This specification shall govern all work necessary for providing surge relief valves required to complete the project.

2. MATERIALS

Valves shall be full metal body, mechanical pinch type with flange joint ends on both the body and flexible sleeve. Port areas shall be 100% of the full pipe area at the valves' ends. The valve area shall be 100% of the full pipe area through the entire length of the valve.

Integral flanges shall be drilled and tapped to ANSI B16.1 Class 125 standard.

The pinch valve shall be one piece construction with integral flanges drilled to be retained by the flange bolts. The pinch tube shall be reinforced with nylon. The pinch tube shall be connected to the pinch bar by rubber tabs embedded in the tube reinforcing ply. All internal valve metal parts are to be isolated from the wastewater by the flexible elastomer pinch tube.

The steel mechanism shall be double-acting, closing the pinch tube, sleeve, from both the bottom and the top. The mechanism shall be supported in the valve body. The pinch mechanism shall be adjustable on line. The mechanism shall be connected to the cylinder actuator by a stainless steel stem.

A cylinder housing shall fully enclose the spring. The cylinder assembly shall be mounted on the valve body by means of an open yoke. The spring shall be externally adjustable for set pressure.

The yoke shall be used to limit swishes, stem position indicator, and accessories.

The valve shall normally be closed. The valve will be factory set at and easily adjusted in the field. Valve shall meet the following:

Valve Size: 2"

Factory set cracking pressure: 40 PSI

3. MEASUREMENT AND PAYMENT

Unless indicated otherwise in the Proposal, Surge relief valves shall not be measured for pay, but shall be considered subsidiary to other work.